

IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data Form

A. PERSONAL		
Title	Assistant Professor	
Name	Fatma Mutlu	
Birth Place / Year	Kırcaali / 1986	
e-Mail / Personal Web Site	fatma.mutlu@isikun.edu.tr	
Working Field(s)	Mechanical Engineering, Solid Mechanics, Fracture Mechanics	
Foreign Language(s)	English	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	2023	Mechanical Engineering	Boğaziçi University
Master of Science	2016	Mechanical Engineering	Boğaziçi University
Bachelor of Science	2009	Mechanical Engineering	Fırat University
Associate			

C. ACADEMIC		
Title	Year	Institution
Professor		
Associate Professor		
Assistant Professor	2024-	Işık University, Department of Mechanical Engineering
Lecturer		
Research Assistant	2014-2023	Boğaziçi University Department of Mechanical Engineering

D. PROFESSIONAL EXPERIENCE	
a. Domestic	
2024-	Işık University Department of Mechanical Engineering Assistant Prof.
2014-2023	Boğaziçi University Department of Mechanical Engineering Research Assist.
b. Abroad	
2019-2020	University of Illinois at Urbana-Champaign, Department of Mechanical Science and Engineering, IL, USA Visiting Scholar

E. ADMINISTRATIVE EXPERIENCE	
a. At Işık University	
b. At Other Institutions/Companies	

F. INTERESTED SUBJECTS

Solid Mechanics

Shape Memory Alloys

Finite Elements

Fracture Mechanics

Digital Image Correlation (DIC)

Experimental Mechanics

G. INSTRUCTED COURSES**a. At Işık University**

MECT2211 Engineering Mechanics - I

MECT2222 Engineering Mechanics - II

ENGR2104 Dynamics

MECH2130 Computational Methods in Engineering

ME508 Fracture Mechanics (MSc)

b. At Other Institutions**H. NUMBER OF SUPERVISED GRADUATE THESIS**

Master of Science

Doctorate

I. PUBLICATIONS

Type	SCI-Expanded International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	2	1		2		
SCI-Expanded Total Number of Citations	13					
Important Publications						
Mutlu, F., G. Anlas, and H. Sehitoglu, The effect of micro-structural barriers on transient crack growth behavior in conial shape memory alloys, Smart Mater. Struct. 32, 095006 (2023). DOI: 10.1088/1361-665X/ace74d						
Mutlu, F., Anlas, G. and Sehitoglu, H. Crack Initiation Angle in Single Crystal Shape Memory Alloys. Shap. Mem. Superelasticity 9, 427–436 (2023). DOI: 10.1007/s40830-023-00439-9						
Mutlu, F., Anlas, G. and Moumni, Z. Effect of loading rate on fracture mechanics of NiTi SMA. Int J Fract 224, 151–165 (2020). DOI: 10.1007/s10704-020-00450-6						
Mutlu, F., G. Anlas, and H. Sehitoglu, "Crack initiation angle in notched conial shape memory alloys," 12th European Symposium on Martensitic Transformations (ESOMAT), Ankara (5-9 Sept. 2022).						
Mutlu, F. and G. Anlas, "The effect of loading rate on mechanical behavior of edge-cracked niti," 11th European Symposium on Martensitic Transformations (ESOMAT), Metz, FRANCE (27-31 Aug. 2018).						

J. RESEARCH EXPERIENCE						
Number of Projects	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
As Supervisor						
As Researcher						

K. REFERREING								
Type	SCI Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers								

L. INTELLECTUAL PROPERTIES			
Patents	Utility Models	Industrial Designs	Other

M. PROFFESIONAL ASSOCIATION MEMBERSHIPS
Union of Chambers of Turkish Engineers and Architects – Chamber of Mechanical Engineers

N. OTHER USEFUL INFORMATION (if any)